

Claims:

1. (currently amended) A method for repressing weight gain or reducing weight in a male patient, comprising administering (+)-Z-bisdehydrodoisynolic acid in a dosage effective to repress weight gain or reduce weight to a male patient suffering from, or disposed to, weight gain, said repression of weight gain or reduction in weight being independent of food intake.

2. (original) The method of claim 1, wherein said dosage is in the range of from about 0.1 µg/kg/day to about 100 mg/kg/day.

3. (withdrawn) A method for treating or preventing a disease, condition, or symptom selected from the group consisting of prostatic disease, peri- or post-menopausal symptoms, an estrogen-responsive condition that no longer responds to treatment with conventional steroidal estrogens, an estrogen-responsive uterine cancer, breast cancer, ovarian follicle atresia, a disease or condition caused or prolonged by free radicals, cardiovascular disease, hyperlipidemia, hypercholesterolemia, hyperglycemia, Alzheimer's disease and pattern baldness, comprising administering an estrogenic carboxylic acid in a dosage effective to treat or prevent said disease, symptom, or condition to a patient suffering from, or disposed to, said disease, symptom, or condition.

4. (withdrawn) The method of claim 3, wherein said estrogenic carboxylic acid is selected from the group consisting of a doisynolic acid, an allenolic acid, a phenylcyclohexanecarboxylic acid, a hydroxyphenylcyclohexanecarboxylic acid, a phenylcyclohexanecarboxylic acid, a hydroxyphenylcyclohexanecarboxylic acid, a hydroxytetrahydroanthracenecarboxylic acid, and a tetrahydroanthracenecarboxylic acid.

5. (withdrawn) The method of claim 4, wherein said estrogenic carboxylic acid is selected from the group consisting of (+)-doisynolic acid, (-)-Z-bisdehydro-doisynolic acid, (+)-Z-bisdehydrodoisynolic acid, (±)-Z-bisdehydrodoisynolic acid, (-)-allenolic acid, (+)-allenolic acid, 1-(*p*-hydroxyphenyl)-6-ethyl-5-methylcyclohexene-4-carboxylic acid, 1-(*p*-hydroxyphenyl)-2-ethyl-3-methylcyclohexene-4-carboxylic acid, 1-(*p*-hydroxyphenyl)-2-ethyl-

3,5,5-trimethylcyclohexene-4-carboxylic acid, 4-(*p*-hydroxyphenyl)-2,2,6,6-tetramethylcyclohexanecarboxylic acid, 1-ethyl-6-hydroxy-2-methyl-1,2,3,4-tetrahydroanthracene-2-carboxylic acid, 1-phenyl-2-ethyl-3-methylcyclohexene-4-carboxylic acid, and 1-phenyl-5,6-dimethylcyclohexene-4-carboxylic acid, or a pharmaceutically acceptable salt, ester, or anhydride thereof.

6. (withdrawn) The method of claim 5, wherein said estrogenic carboxylic acid is selected from the group consisting of (-)-*Z*-bisdehydrodoisynolic acid, (+)-*Z*-bisdehydrodoisynolic acid, and (±)-*Z*-bisdehydrodoisynolic acid.

7. (withdrawn) The method of claim 3, wherein said dosage is in the range of from about 0.1 µg/kg/day to about 100 mg/kg/day.

8. (withdrawn) A method for treating or preventing osteoporosis comprising administering an estrogenic carboxylic acid selected from the group consisting of a doisynolic acid, a phenylcyclohexenecarboxylic acid, a hydroxyphenylcyclohexenecarboxylic acid, a phenylcyclohexanecarboxylic acid, a hydroxyphenylcyclohexanecarboxylic acid, a hydroxytetrahydroanthracenecarboxylic acid, and a tetrahydroanthracenecarboxylic acid in a dosage effective to treat or prevent osteoporosis to a male or female patient suffering from, or disposed to, osteoporosis.

9. (withdrawn) The method of claim 8 wherein said estrogenic carboxylic acid is selected from the group consisting of (+)-doisynolic acid, (-)-*Z*-bisdehydro-doisynolic acid, (+)-*Z*-bisdehydrodoisynolic acid, (±)-*Z*-bisdehydrodoisynolic acid, 1-(*p*-hydroxyphenyl)-6-ethyl-5-methylcyclohexene-4-carboxylic acid, 1-(*p*-hydroxyphenyl)-2-ethyl-3-methylcyclohexene-4-carboxylic acid, 1-(*p*-hydroxyphenyl)-2-ethyl-3,5,5-trimethylcyclohexene-4-carboxylic acid, 4-(*p*-hydroxyphenyl)-2,2,6,6-tetramethylcyclohexanecarboxylic acid, 1-ethyl-6-hydroxy-2-methyl-1,2,3,4-tetrahydroanthracene-2-carboxylic acid, 1-phenyl-2-ethyl-3-methylcyclohexene-4-carboxylic acid, and 1-phenyl-5,6-dimethylcyclohexene-4-carboxylic acid, or a pharmaceutically acceptable salt, ester, or anhydride thereof.

10. (withdrawn) The method of claim 9, wherein said estrogenic carboxylic acid is selected from the group consisting of (-)-Z-bisdehydrodoisynolic acid, (+)-Z-bisdehydrodoisynolic acid, and (±)-Z-bisdehydrodoisynolic acid.

11. (withdrawn) The method of claim 8, wherein said dosage is in the range of from about 0.1 µg/kg/day to about 100 mg/kg/day.

12. (new) The method of claim 1 wherein said repression of weight gain or reduction in weight is due to a decrease in food efficiency.

13. (new) The method of claim 1 wherein said repression of weight gain or reduction in weight is not due to appetite suppression.

14. (new) The method of claim 1 wherein there is not a decrease in food intake of the male patient.